## WHAT IS CLAIMED IS:

- 1. A valve operating device for an internal combustion engine, comprising a camshaft in a separate cylinder head of the internal combustion engine to control the stroke of a charge exchange valve with an interposed rocker arm which is journaled in the cylinder head on a reciprocating piston of a hydraulic valve clearance compensating element, wherein the piston has an arrangement for the engagement of a tool for a mechanical lifting action for a clearance-free surface-to-surface contact of surfaces of the rocker arm and of an additional valve operating element in the case of the valve clearance compensating element held without hydraulic pressure.
- 2. The device according to claim 1, wherein the piston is equipped with a separate device for positive and/or frictional engagement with the tool.
- 3. The device according to claim 2, wherein the piston of the valve clearance compensating element which can be supplied partially filled with oil has an external circumferential groove between a guiding section and a rocker arm joint head as a separate device having a fork-like end section for engagement by the tool.
- 4. The device according to claim 3, wherein the piston is operated in the lifting direction by the tool acting linearly or rotationally or rockingly, and to sustain the surface-to-surface junction between the contact surfaces on the valve operating side, force is applied to the tool.
- 5. The device according to claim 4, wherein the charge exchange valve is adjustable for various stroke lengths, the rocker arm is equipped with a wheel, with a control track including an idle stroke cam and a stroke cam of a lever operated by the camshaft against the action of a return spring, whose starting position corresponding to the particular stroke variation is adjustable under control/regulation.
- 6. The device according to claim 2, wherein the piston is operated in the lifting direction by the tool acting linearly or rotationally or rockingly, and to sustain

the surface-to-surface junction between the contact surfaces on the valve operating side, force is applied to the tool.

- 7. The device according to claim 6, wherein the charge exchange valve is adjustable for various stroke lengths, the rocker arm is equipped with a wheel, with a control track including an idle stroke cam and a stroke cam of a lever operated by the camshaft against the action of a return spring, whose starting position corresponding to the particular stroke variation is adjustable under control/regulation.
- 8. The device according to claim 1, wherein the piston is operated in the lifting direction by the tool acting linearly or rotationally or rockingly, and to sustain the surface-to-surface junction between the contact surfaces on the valve operating side, force is applied to the tool.
- 9. The device according to claim 8, wherein the charge exchange valve is adjustable for various stroke lengths, the rocker arm is equipped with a wheel, with a control track including an idle stroke cam and a stroke cam of a lever operated by the camshaft against the action of a return spring, whose starting position corresponding to the particular stroke variation is adjustable under control/regulation.
  - 10. A method for using a valve operating device comprising the steps of:

positioning and fixing a separated cylinder head in an apparatus without a hydraulic pressure connection;

mechanically lift-actuating pistons of all equalizing elements with automatically supplied tools for the clearance-free surface-to-surface connection of contact surfaces of a rocker arm and of an additional valve operating element with a controlled contact force, bringing all levers of a variable-stroke valve operating device into position in regard to their pivot points for a predetermined minimum stroke of all charge exchange valves, and

coupling a camshaft with a drive device disposed in an apparatus and driving the camshaft at a predetermined rotary speed, while determining at least the valve strokes using extensometers drivingly connected to the moving charge exchange valves, which are displayed on a monitor with a given tolerance band and are furthermore documented.